

## Description

**Polypropylene 3620WZ** is engineered with nucleation to provide fast cycle time and improve contact clarity in thin wall multi-cavity molds.

**Antistat:** 3620WZ contains an antistat that will help protect molded parts from dust accumulation.

**Regulatory:** 3620WZ has passed USP Class VI testing, an all ingredients meet the chemical registration requirements of TSCA (U.S.) and DSL (Canada). TOTAL Polypropylene 3620WZ complies with all applicable FDA regulations for food contact applications.

**Recommended Applications:** 3620WZ is particularly well suited for caps, closures, medical syringes and thin wall containers.

**Processing** 3620WZ resin processes on conventional injection molding equipment with typical melt temperatures of 390-450°F (200-232°C)

## Characteristics

|   | Method                  | Unit  | Typical Value   |
|---|-------------------------|---|-----------------|
| <b>Rheological Properties</b>           |                         |   |                 |
| Melt Flow                               | D-1238<br>Condition "L" | g/10 min                                    | 12              |
| <b>Mechanical Properties</b>            |                         |   |                 |
| Tensile                                 | D-638                   | psi (MPa)                                   | 5,400 (35.9)    |
| Elongation                              | D-638                   | %   | 10              |
| Tensile Modulus                         | D-638                   | psi (MPa)                                   | 250,000 (1,380) |
| Flexural Modulus                        | D-790                   | psi (MPa)                                   | 230,000 (1,206) |
| Izod Impact @ 73°F                      |                         |   |                 |
| Notched                                 | D-256A                  | ft.-lbs/in. (J/m)                           | 0.5 (26.7)      |
| Unnotched                               |                         |   | 16.0 (850)      |
| Hardness                                | D-785A                  | Rockwell R                                  | 107             |
| <b>Thermal Properties<sup>(1)</sup></b> |                         |   |                 |
| Melting Point                           | DSC <sup>(2)</sup>      | °F (°C)                                     | 330 (165)       |
| Heat Deflection                         | D-648                   | °F @ 66 psi<br>°C @ 4.64 kg/cm <sup>2</sup> | 260<br>127      |
| <b>Other Physical Properties</b>        |                         |   |                 |
| Density                                 | D-1505                  | g/cc  | 0.905           |

(1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.

(2) MP determined with a DSC-2 Differential Scanning Calorimeter. Test procedure available upon request.